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|  |  | **Problem Statement Ideas** | | | | | | | | |
| **Criteria** | **Weight** | Idea 1 | Idea 2 | Idea 3 | Idea 4 | Idea 5 | Idea 6 | Idea 7 | Idea 8 | Idea 9 |
| Product will be able to prevent gum from sticking to the shoe. | **3** | 4 | 4 | 2 | 5 | 5 | 3 | 3 | 2 | 4 |
| The product can be accomplished in the given time. | **2** | 2 | 4 | 1 | 2 | 3 | 2 | 2 | 1 | 2 |
| The product can be made with the available resources. | **3** | 2 | 4 | 1 | 1 | 3 | 1 | 1 | 1 | 3 |
| The product is marketable. | **1** | 5 | 5 | 3 | 2 | 4 | 3 | 3 | 3 | 3 |
| Product is affordable. | **1** | 4 | 4 | 1 | 3 | 4 | 2 | 2 | 2 | 4 |
| Materials used are durable. | **2** | 2 | 4 | 3 | 4 | 1 | 2 | 2 | 2 | 2 |
| Product has appealing appearance. | **1** | 5 | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 2 |
| Product is slip resistant. | **3** | 5 | 5 | 4 | 1 | 2 | 2 | 3 | 1 | 4 |
| Product is water resistant. | **3** | 2 | 4 | 2 | 5 | 5 | 4 | 4 | 5 | 4 |
| Product is testable. | **2** | 3 | 5 | 4 | 4 | 4 | 3 | 3 | 1 | 4 |
| Adjustable to shoe size. | **1** | 1 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Adjustable to shape of the sole. | **1** | 1 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Total Score |  | 69 | 96 | 52 | 66 | 74 | 56 | 63 | 44 | 72 |

Idea 1- Sticker Idea ( Multiple layers of slip-resistant material that peel off when the gum is stuck to it)

Idea 2- Cover Idea ( Rubber sole that stretches around the shoe and can be removed from the shoe when the gum is stuck to it)

Idea 3- Sensor Idea ( signals the walker of gum on the ground)

Idea 4- Resistant material Idea (on the bottom of the shoe with slip resistant on the edges of the product (Teflon Fabric))

Idea 5- PVC Glove Idea (glove material on bottom of the shoe that resists gum)

Idea 6- Liquid Idea (Rubber sole with slots that fill with PaveSaver)

Idea 7- Liquid Idea (Rubber sole with slits that fill with PaveSaver)

Idea 8- Hydrophilic Idea ( A stick on layer that collects water, making it difficult for gum to stick to)

Idea 9- Resistant Material Idea and Sticker Idea Combined (only one layer of gum resistant material on bottom of the shoe that can be peeled off)